



**July 22, 2004**

Mr. Robert Boggs  
California Department of Toxic Substances Control  
700 Heinz Avenue, Suite 200  
Berkeley, CA 94710-2721

**Subject: Addendum to the DEH Area Operable Unit Closure Report  
Request for Final Certification  
DEH Area Operable Unit  
Presidio of San Francisco, California**

Dear Mr. Boggs:

The Presidio Trust (Trust) is pleased to provide the California Department of Toxic Substances Control (DTSC) with a copy of *Technical Report: First Quarter 2004 Groundwater Monitoring Data at the Directorate of Engineering and Housing (DEH) Area Operable Unit, Presidio of San Francisco* dated July 2004 (Technical Report). The Technical Report presents the results of the groundwater monitoring activities conducted as part of the First Quarter 2004 Presidio-wide Quarterly Groundwater Monitoring Program at the DEH Operable Unit (OU) Area located in the Presidio of San Francisco, California. This letter and the attached Technical Report constitute an addendum to the *DEH Operable Unit Closure Report* dated September 30, 2003 (Closure Report). The Closure Report was submitted by the Trust to DTSC in accordance with Section 5.12 of the Consent Agreement for the Presidio of San Francisco dated August 30, 1999 and signed by DTSC, the National Park Service (NPS) and the Trust (Consent Agreement). By this letter, the Trust is requesting that the DEH OU Area be regulatorily certified as adequately remediated in accordance with Section 5.16 of the Consent Agreement.

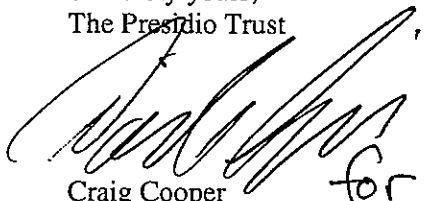
At the request of the DTSC, Trust, NPS and DTSC staff met on February 19, 2004, at DTSC offices to discuss, among several topics, the DEH Area OU Closure Report. At this meeting, the DTSC requested and the Trust agreed to conduct one additional round of groundwater monitoring for volatile organic compounds (VOCs) in selected DEH OU wells (DEHGW08 through DEHGW11). The purpose of this additional round of groundwater monitoring was to determine whether VOC groundwater concentrations at the DEH OU continue to meet not only the cleanup levels required by the Remedial Action Plan (RAP) for this OU, but also Maximum Contaminant Levels (MCLs) allowed by the Safe Drinking Water Act. It was agreed that if the data results from this additional monitoring round indicated that DEH Area OU groundwater met both RAP requirements and MCLs, then the OU would be suitable for final closure and certification by DTSC with no land or groundwater use restrictions. This additional monitoring event occurred in March 2004 as part of the Trust's First Quarter 2004 Presidio-wide Quarterly Groundwater Monitoring Program at the Presidio of San Francisco. The results of this monitoring event are described in the attached Technical Report.

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As described in the Technical Report, both RAP requirements and MCLs were achieved in all DEH groundwater monitoring wells. As a result, the Trust requests full certification for the DEH OU Area in accordance with Section 5.16 of the Consent Agreement. The Trust requests that DTSC's certification contain no further implementation steps including no land use controls or groundwater use restrictions. Upon DTSC certification of the DEH Area OU, the Trust will abandon all groundwater monitoring wells associated with this OU in accordance with State of California requirements.

We appreciate your work on this project. If you have any questions, please call me at (415) 561-4259.

Sincerely yours,  
The Presidio Trust



Craig Cooper  
Remediation Program Manager

Distribution:

Mr. James Ponton, RWQCB  
Mr. Brian Ullensvang – National Park Service  
Mr. Doug Kern and Mark Youngkin – Presidio Restoration Advisory Board (RAB)



**Treadwell & Rollo**

**TECHNICAL REPORT: FIRST QUARTER 2004 GROUNDWATER MONITORING DATA  
DIRECTORATE OF ENGINEERING AND HOUSING (DEH) AREA OPERABLE UNIT  
PRESIDIO OF SAN FRANCISCO, CALIFORNIA**

*Prepared for:*

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**July 2004**



**TECHNICAL REPORT: FIRST QUARTER 2004  
GROUNDWATER MONITORING DATA  
DIRECTORATE OF ENGINEERING AND HOUSING (DEH) AREA OPERABLE UNIT  
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**July 2004**

  
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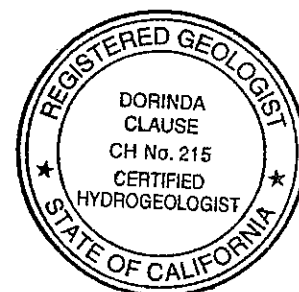
21 July 2004

Date

  
Joshua D. Graber, Treadwell & Rollo, Inc.

21 July 2004

Date



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## **LIST OF ATTACHMENTS**

Attachment A	Groundwater Level Measurement Logs and Calibration Records (Compact Disc)
Attachment B	Purge Records (Compact Disc)
Attachment C	DataVal Report – First Quarter 2004 (Compact Disc)
Attachment D	Laboratory Analytical Reports (Compact Disc)

## 1.0 PURPOSE

This technical report concerns First Quarter 2004 groundwater sample analytical results for selected wells located within the Directorate of Engineering and Housing (DEH) Area Operable Unit in the Presidio of San Francisco. This technical report, along with its accompanying transmittal letter, constitutes an addendum to the Presidio Trust's DEH Area Operable Unit Closure Report dated 30 September 2003.

## 2.0 INTRODUCTION

The DEH Area is located in the northeastern portion of the Presidio (Figure 1), at the boundary of the San Francisco Bay. The maximum site elevation is approximately 15 feet above the Presidio lower low water (PLLW) datum (Figure 2).

The DEH Area formerly consisted of several buildings, which were primarily built between the years of 1940 and 1970 (Figure 2). The buildings and asphalt were razed and removed in 1996 to facilitate the development of Crissy Field by the National Park Service (NPS) (Dames & Moore, 1997). Army operations at the DEH area included administrative, storage, and maintenance support for the Presidio. Activities involved vehicle and engine maintenance, storage of equipment and materials, painting, mixing of pesticides, and handling of hazardous substances (Montgomery Watson, 1997). Two above ground storage tanks (ASTs) and four underground storage tanks (USTs) were used to store fuel oil, diesel fuel, and pesticide mixing waste. The ASTs, USTs, and associated piping were removed in 1994 and 1995. A remedial action plan (RAP) was completed in 1997 (Army, 1997).

Since June 1999, groundwater samples from the DEH Area have been analyzed for dissolved oxygen, volatile organic compounds (VOCs), dissolved lead, total petroleum hydrocarbons (TPH) as gasoline (TPHg), TPH as diesel (TPHd), TPH as fuel oil (TPHfo), organochlorine pesticides (OCPs), and polychlorinated biphenyls (PCBs). Two wells, DEHGW01 and DEHGW03, have been periodically sampled since 1992. Monitoring wells DEHGW05 through DEHGW12 were first sampled in June 1999.

All monitoring wells in the DEH Area were approved for removal from the groundwater sampling schedule and were monitored for water elevation only, beginning with Fourth Quarter 2002. The *Final Closure Report, DEH Study Area, Presidio of San Francisco, California* (MACTEC, 2003), addresses future groundwater monitoring at the DEH Area. The NPS, in comments dated 18 February 2003, requested one round of resumed sampling of monitoring wells DEHGW08, DEHGW09, DEHGW10, DEHGW11, and DEHGW12, which was performed during First Quarter 2003.

Groundwater samples collected from DEHGW08 through DEHGW12 were analyzed for dissolved oxygen, OCPs, PCBs, VOCs and TPHg during First Quarter 2003. No OCPs, PCBs, or TPHg were detected within any groundwater samples collected from the DEH Area during First Quarter 2003. Benzene, ethylbenzene, and/or total xylenes were detected at concentrations ranging from 0.2 to 1.9 micrograms per liter ( $\mu\text{g/L}$ ) in samples collected from DEHGW08 through DEHGW11 during First Quarter 2003. In addition, TCE was also detected at concentrations of 1.0, 3.6, and 4.7  $\mu\text{g/L}$  in monitoring wells DEHGW08, DEHGW09 and DEHGW10, respectively. The detected TCE concentration (4.7  $\mu\text{g/L}$ ) during the First Quarter 2003 within DEHGW10 was the highest within this well since the First Quarter 2000 (Treadwell & Rollo, 2003). Based on these results, the Department of Toxic Substance Control (DTSC) required an additional groundwater sampling event to be completed prior to granting site closure and final certification. In response to the DTSC's request, monitoring wells DEHGW08 through DEHGW11 were sampled for VOCs during the First Quarter 2004. The proposed

sampling schedule and sampling procedures for the First Quarter 2004 at the DEH Area are detailed in Table 1. First Quarter 2004 groundwater sampling results are discussed in Section 6.0.

Historical dissolved oxygen, TPH, dissolved lead, TDS, OCP, PCB, and VOC results can be found in Tables 2 through 4. Groundwater elevations measured within DEH Area monitoring wells are presented in Table 5. The groundwater level measurement logs, calibration and purge records, and data validation and laboratory reports associated with the DEH Area are included on the attached compact disc as Attachments A through D.

### **3.0 SITE DESCRIPTION AND GEOLOGY**

The DEH Area is located in the Crissy Field Groundwater Area of the Marina Groundwater Basin (Figure 1). Depth to groundwater beneath the DEH area ranges from approximately 5 to 10 feet below ground surface (bgs) and generally flows northward towards the San Francisco Bay, but local flow directions may change due to tidal fluctuations (Treadwell & Rollo, 2003). Soils beneath the DEH Area consist of artificial and debris fill, dune sands, and Bay Mud. Fill materials are present at the DEH Area at depths ranging from 4 feet across most of the site to 15 feet in the northwest section. Native dune sands underlie the fill materials to a depth of approximately 40 feet bgs. Bay Mud was encountered on the eastern portion of the site at 40 feet bgs (Schlocker, 1974).

### **4.0 REMEDIAL ACTION PLAN**

In April 1997, the DTSC approved the U.S. Army's RAP for the DEH Area (DEH RAP). The DEH RAP selected excavation and offsite disposal of contaminated soils (not including contaminated soils found below the water table) as the remedial alternative (Army, 1997) to address six areas of contamination within the DEH Area. Groundwater contamination was anticipated to be reduced to specified concentrations through naturally occurring processes. The existing groundwater cleanup levels are 8.1 µg/L for dissolved lead and 6.9 µg/L for TCE. Groundwater sampling was required for at least six quarters following remedy implementation. If groundwater cleanup levels have not been achieved within this time period, but a downward trend in concentrations is evident, the sampling and analysis will be conducted annually until the next five-year review. If cleanup levels have not been achieved and a downward trend in concentrations is not evident, quarterly sampling and analysis are to continue for an additional four quarters, at which time the data will again be evaluated as described above (Army, 1997).

### **5.0 GROUNDWATER MONITORING**

The DEH Area has ten associated monitoring wells (Figure 2). All ten DEH Area monitoring wells were sounded for groundwater level depths during First Quarter 2004 (Table 5). Groundwater samples were collected from DEH Area monitoring wells DEHGW08 through DEHGW11 during First Quarter 2004, in accordance with the approved sampling schedule (Table 1).

#### **5.1 Groundwater-Level Measurements and Interpretation**

DEH groundwater elevations during the First Quarter 2004 are presented in Table 5. Water level meters were calibrated on 8 March 2004. Groundwater level elevation logs and calibration records are included as Attachment A.

During First Quarter 2004, depth to groundwater measurements were collected between 8:40 AM and 9:37 AM, which is approximately between three and four hours after low tide at 5:42 AM on 8 March



2004. Groundwater elevations ranged from 3.74 to 4.75 feet above PLLW in monitoring wells DEHGW03 and DEHGW01, respectively (Table 5). The groundwater flow direction was determined to be northerly, towards San Francisco Bay (Figure 2), and the groundwater gradient was calculated to be approximately 0.002 feet per foot. Groundwater flow direction and gradients during the First Quarter 2004 are consistent with historical interpretations.

Tidal predictions are taken from the National Oceanic and Atmospheric Administration's (NOAA) Center for Operational Oceanographic Products and Services website.

## **5.2 Monitoring Well Purging and Sampling**

During the First Quarter 2004, four DEH Area monitoring wells (DEHGW08 through DEHGW11) were purged and sampled on 11 March 2004. All DEH Area monitoring wells proposed for sampling were purged and sampled using methods shown in Table 1, and in accordance with procedures described in the Field Sampling Plan (FSP) (Treadwell & Rollo, 2001).

Purge equipment, purging volumes, purge water parameters, and sampling equipment for each monitoring well are described in the purge records. The purge records are included as Attachment B. Purge water was stored for future disposal in one of two 2,800-gallon aboveground polyethylene storage tanks, which are located at the Central Magazine. The purge water in the storage tanks is then tested and disposed of into the sanitary sewer operated by the City and County of San Francisco (CCSF) pursuant to CCSF Order 158170 (adopted December 18, 1991) and Ordinance 116-97 (adopted January 13, 1997).

## **6.0 GROUNDWATER ANALYTICAL RESULTS**

Groundwater samples collected from the DEH Area monitoring wells during the First Quarter 2004 were analyzed for VOCs. Prior to sample collection, the dissolved oxygen concentration was measured within each monitoring well proposed for sampling. Groundwater analytical results were validated by DataVal Incorporated. No detected groundwater analytical results for First Quarter 2004 at the DEH Area were qualified or rejected based on the data validation. A complete copy of the First Quarter 2004 data validation report is included as Attachment C. The laboratory reports associated with the DEH Area monitoring are included as Attachment D. Groundwater analytical results are discussed below.

### **6.1 Dissolved Oxygen**

Dissolved oxygen was measured at the time of sampling within all DEH Area monitoring wells that were sampled during the First Quarter 2004. Dissolved oxygen concentrations ranged from 0.12 to 0.21 mg/L within DEHGW10 and DEHGW09, respectively. All dissolved oxygen concentrations measured during the First Quarter are within the range of previously measured concentrations at the DEH Area.

### **6.2 VOC Results**

TCE was detected within DEHGW08, DEHGW09 and DEHGW10 during the First Quarter 2004 at concentrations ranging from 0.7 to 1.9 µg/L. TCE concentrations detected within samples from monitoring wells DEHGW08, DEHGW09, and DEHGW10 are graphically depicted on Figures 3, 4, and 5, respectively.

TCE was detected within the primary, the duplicate and the quality control duplicate samples collected from DEHGW09 at concentrations of 1.9, 1.8, and 2.1 µg/L, respectively. TCE was not detected in the sample collected from DEHGW11 and has never been detected within this well. All detected

concentrations of TCE during the First Quarter 2004 are lower than their respective concentrations detected during the previous sampling event (First Quarter 2003). TCE was not detected above the DEH RAP cleanup level of 6.9 µg/L or the Safe Drinking Water Act (SDWA) maximum contaminant level (MCL) for TCE of 5.0 µg/L within any groundwater samples collected during this quarter. TCE has not been detected above its DEH RAP cleanup level within any DEH Area monitoring wells since September 1999. TCE has not been detected above its MCL of 5.0 µg/L within any DEH Area monitoring wells since August 2002.

Benzene was the only other VOC detected within DEH Area monitoring wells during the First Quarter 2004. Benzene was detected at an estimated concentration of 0.2 µg/L within monitoring well DEHGW10. Benzene was not detected above laboratory detection limits within any other DEH Area monitoring wells sampled during the First Quarter 2004. Benzene does not have a DEH RAP-specified cleanup level. Additionally, benzene has never been detected at a concentration above its MCL of 1.0 µg/L within any DEH Area monitoring wells.

A trip blank (TB0311042A) was submitted with all the samples collected from the DEH Area on 11 March 2004 to ensure that detected VOC concentrations were not a result of sample handling procedures. No VOCs were detected within TB0311042A.

## **7.0 CONCLUSIONS AND RECOMMENDATIONS**

Groundwater flow directions and gradients during the First Quarter 2004 are consistent with historical interpretations.

During the First Quarter 2004, TCE was detected at concentrations ranging from 0.7 to 2.1 µg/L within DEHGW08 and DEHGW09, respectively. TCE has never been detected within DEHGW11. The detected concentrations of TCE within DEHGW08 and DEHGW10 are the lowest concentrations detected to date within these wells (Figures 3 and 5). The concentrations of TCE detected within the primary, duplicate and quality control duplicate samples collected from DEHGW09 are equal to the three lowest detections previously reported within this well (Figure 4).

In addition to TCE, benzene was also detected within DEHGW10 at a relatively low concentration of 0.2 µg/L, which is less than the laboratory reporting limit 0.5 µg/L and the detected concentration was qualified (J) as estimated. No other VOCs were detected within any other DEH Area monitoring well samples during this quarter.

The requirements of the DEH RAP have been met. In addition, the groundwater concentrations at the DEH OU Area meet MCLs. TCE concentrations within DEH Area monitoring wells are generally as low as they have ever been since groundwater sampling began in 1999. TCE has not been detected above the DEH RAP cleanup level of 6.9 µg/L within any DEH Area monitoring wells since September 1999. Additionally, TCE has not been detected above the MCL of 5.0 µg/L within any DEH Area monitoring wells since August 2002.

Based on the above analysis of current and historical groundwater analytical results in the DEH Area, the DEH Area Operable Unit should be considered for final closure and certification (with no land or groundwater use restrictions) in accordance with DTSC Consent Agreement for the Presidio dated 30 August 1999. Upon DTSC certification of the DEH Area Operable Unit, all groundwater monitoring wells associated with this Operable Unit should be abandoned in accordance with State of California requirements.

## REFERENCES

- Dames & Moore, 1997. *Final Remedial Investigation Report, Presidio Main Installation, Presidio of San Francisco, California. Prepared for the USACE.* January.
- MACTEC, 2003. *Final Closure Report, DEH Study Area, Presidio of San Francisco, California.* September.
- Montgomery Watson, 1997. *Basewide Groundwater Monitoring Plan, Draft Attachments F.11 to F.17, Presidio of San Francisco, California. Prepared for the USACE, Sacramento District, California.* July.
- Schlocker, J., 1974. *Geology of the San Francisco North Quadrangle, California. United States Geological Survey Professional Paper No. 782.*
- Treadwell & Rollo, Inc.(Treadwell & Rollo), 2001. *Field Sampling Plan, Presidio Groundwater Monitoring Project.* April.
- Treadwell & Rollo, 2003. *Draft First and Second Quarters 2003, Presidio-wide Quarterly Groundwater Monitoring Project.* October.
- U.S. Department of the Army (Army) , 1997. *Presidio of San Francisco, Directorate of Engineering and Housing (DEH) Study Area, Evaluation of Remedial Alternatives and Draft Remedial Action Plan (RAP).* January.

## TABLES

Table 1  
Proposed Sampling Schedule First Quarter 2004  
Presidio Groundwater Monitoring Project  
Presidio of San Francisco, California

Site Name/ID	Well ID	Sampling Information				Analytical Requirements																						Notes/Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
		Water Level/Seep Evaluation	Sampling Method <sup>1</sup>	Well Access <sup>2</sup>	Sampling Order <sup>3</sup>	Perchlorate	NDMA	1,4-dioxane	PBDE	General Water Quality Parameters	MBAS	Total Hardness	Molybdenum (from metals container)	23 Total Metals (no filter)	23 Dissolved Metals <sup>4</sup>	22 Total Metals (no Hg, no filter)	22 Dissolved Metals (no Hg)	7 Total Metals (no filter)	7 Dissolved Metals <sup>4,5</sup>	Dissolved Al, Fe, Cr	Total Dissolved Solids	Dissolved Oxygen <sup>6</sup>	Organochlorine Pesticides	PCBs	VOCs MTBE	BTEX MTBE	PAHs		SVOCs	Sulfide	Cyanide	Chlorinated Herbicides	TPHg	TPHd	TPHf	Stoddard Solvent																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020	EPA 6010/6020

- Notes
- 1 - Normal, Low Flow, Modified, and Surface water sampling techniques. A description of sampling techniques can be found in Section 5 or Appendix B of the Quarterly Groundwater Monitoring Report
- 2 - Truck - Well accessible by truck
- LIV - Low Impact Vehicle - Well accessible by LIV or hand truck only
- Hand - Well accessible by hand truck only
- 3 - Sampling Order: At each site sample the wells with the lowest number first. For example, sample the number 1 wells first, the number 2 wells second etc. The following key explains the numbering system.
- 1 - Wells without significant detections of chemicals of concern
- 2 - Wells with occasional detections of low concentrations chemicals of concern
- 3 - Wells with consistent or recent detections of low concentrations chemicals of concern
- 4 - Wells with high concentrations of chemicals of concern
- 5 - Wells with very high concentrations of chemicals of concern. Potential for free phase product.
- 4 - Beginning with Second Quarter 2003, variance was granted from QAPP specified reporting limit requirements for seven metals.
- 5 - 7 Dissolved metals include As, Cr, Cd, Cu, Pb, Ni and Zn. For B1065 wells, add iron (Fe) to the 7 dissolved metals.
- 6 - Dissolved Oxygen (DO) concentration will be included in field sampling logs. DO values should be recorded immediately before sample collection.

Bold red text indicates proposed changes for the First Quarter 2004. Note that in the case where the previous version of Table 1 indicated semi-annual sampling with "Q1, Q3" and the current proposal is for annual sampling, only the \*changed\* portion will be shown in bold red text, resulting in "Q1-Q3."

Bold blue text indicates proposed changes associated with the RWQCB-requested one-time emergent chemical study.

Beginning with Second Quarter 2003, all surface seep samples for metals will not be filtered prior to analysis. All surface seep metals analyses will be for TOTAL METALS.

EM - Elevation Monitoring only

Surface - Surface Water Sampling per Standard Operating Procedure

Trust - the Presidio Trust will evaluate seep BB3SP01 for flow on a quarterly basis and will inform the sampling crew if a sample can be collected.

Q1, Q3, etc. - Sample during quarters specified only

Q - Sample during all quarters unless otherwise directed

TPHg, TPHd, TPHf: Total Petroleum Hydrocarbons as gasoline, diesel, and fuel oil - EPA 3630A: Silica Gel Cleanup Step

General Water Quality Parameters; Alkalinity (total), bicarbonate, carbonate, chloride, fluoride, nitrate+nitrite (as N), sulfate

Analytes shown in bold blue text (perchlorate, NDMA, 1,4-dioxane, and PDE) are for a one-time RWQCB emergent chemicals sampling project during Q1 2004 only.

PBDE = polybrominated diphenyl ether

NDMA = N-nitrosodimethylamine

**Table 2**  
**Summary of Dissolved Oxygen Measurements**  
**DEH Area**  
 Presidio of San Francisco, California

Well Name	Sample Date	Dissolved Oxygen
	Analytical Method	Field
		(mg/L)
DEHGW01	08/30/02	1.1
	06/03/02	0.7
	03/07/02	0.9
	11/30/01	1.0
	09/05/01	1.3
	05/15/01	2.8
	06/20/00	0.08
	01/19/00	0.84
	11/21/96	0.36
	08/26/96	0.61
	04/26/96	0.05
	02/05/96	0.37
DEHGW03	09/04/02	0.9
	06/03/02	0.9
	03/07/02	2.2
	11/29/01	2.4
	09/06/01	0.67
	05/15/01	3.9
	06/21/00	0.09
	01/18/00	3.89
	09/21/99	2.45
	11/21/96	2.13
	08/26/96	3.64
	04/26/96	0.26
	02/05/96	2.77
DEHGW05	09/04/02	0.7
	06/03/02	0.7
	03/07/02	1.0
	11/29/01	1.0
	09/06/01	0.67
	05/14/01	4.8
	06/22/00	0.05
	01/18/00	0.34
	09/07/99	0.38
	06/24/99	0.69

**Table 2**  
**Summary of Dissolved Oxygen Measurements**  
**DEH Area**  
 Presidio of San Francisco, California

Well Name	Sample Date	Dissolved Oxygen
	Analytical Method	Field
		(mg/L)
DEHGW06	09/04/02	0.7
	06/03/02	1.4
	03/07/02	0.2
	11/29/01	1.4
	09/06/01	0.5
	05/14/01	2.2
	06/22/00	0.03
	01/18/00	0.6
	09/07/99	0.72
	06/24/99	0.84
DEHGW07	08/30/02	1.1
	06/03/02	1
	03/07/02	0.6
	11/30/01	1.4
	09/05/01	0.8
	05/14/01	1.7
	06/21/00	0.02
	01/18/00	0.36
	09/07/99	0.17
	06/24/99	0.28
DEHGW08	03/11/04	0.14
	03/14/03	0.2
	08/29/02	1
	06/03/02	0.6
	03/07/02	1.0
	11/30/01	1.2
	09/05/01	1.3
	05/14/01	1.5
	06/20/00	0.31
	01/18/00	0.31
	09/07/99	0.3
	06/23/99	0.27
DEHGW09	03/11/04	0.21
	03/14/03	0.1
	08/29/02	0.7
	06/03/02	1.2
	03/07/02	1.7
	11/30/01	1.2
	09/05/01	1.2

**Table 2**  
**Summary of Dissolved Oxygen Measurements**  
**DEH Area**  
 Presidio of San Francisco, California

Well Name	Sample Date	Dissolved Oxygen
	Analytical Method	Field
		(mg/L)
DEHGW09	05/14/01	1.3
	06/20/00	0.03
	01/19/00	0.14
	09/08/99	0.13
	06/23/99	0.17
DEHGW10	03/11/04	0.12
	03/14/03	0.1
	08/30/02	1.1
	06/03/02	0.7
	03/07/02	1.1
	11/30/01	1.3
	09/05/01	0.91
DEHGW11	05/14/01	1.6
	03/11/04	0.19
	03/14/03	0.1
	08/30/02	0.9
	06/03/02	1.6
	03/07/02	0.9
	11/30/01	1.1
	09/05/01	NM
	05/14/01	1.1
	06/21/00	0.05
	01/19/00	0.14
	09/08/99	0.09
DEHGW12	06/23/99	0.21
	03/14/03	0.3
	08/30/02	1.6
	06/03/02	0.6
	03/07/02	0.2
	11/30/01	1.3
	09/06/01	0.6
	05/14/01	1.7
	06/20/00	0.24
	01/19/00	0.3
	09/08/99	0.05
	06/24/99	0.19

Notes

mg/L - milligrams per liter

NM - not measured



**Table 3**  
**Results of TPH, Lead, TDS, OCP, and PCB Analyses**  
**DEH Area**  
Presidio of San Francisco, California

Well Name	Sample Date	TPH as Gasoline (Carbon Range C <sub>7</sub> -C <sub>12</sub> )	TPH as Diesel (Carbon Range C <sub>12</sub> -C <sub>24</sub> )	TPH as Fuel Oil (Carbon Range C <sub>24</sub> -C <sub>36</sub> )	Dissolved Lead	Total Dissolved Solids	Dieldrin	All Other OCPs and PCBs
	Analytical Method <sup>1</sup>	SW8015M	SW8015M	SW8015M	SW6010/ SW6020	E160.1	SW8081A	SW8081A/ SW8082
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(µg/L)	(µg/L)
DEHGW01	03/07/02	NA	NA	NA	NA	NA	NA	NA
	11/21/96	< 50	< 50	< 300	NA	NA	NA	NA
	08/26/96	< 50	< 48	< 290	NA	NA	NA	NA
	04/26/96	< 50	< 52	< 310	NA	NA	NA	NA
	02/05/96	< 50	< 48	< 290	NA	NA	NA	NA
	11/02/95	< 50	< 50	< 1,300	NA	NA	NA	NA
	08/09/95	< 50	< 50	< 1,300	NA	NA	NA	NA
	08/27/92	< 50	< 50	NA	NA	NA	0.04	NA
DEHGW03	09/04/02	NA	NA	NA	< 3	730	NA	NA
	06/03/02	NA	NA	NA	< 3	610	NA	NA
	03/07/02	NA	NA	NA	< 3	620	NA	NA
	11/29/01	NA	NA	NA	< 3	1,740	NA	NA
	09/06/01	NA	NA	NA	< 3	NA	NA	NA
	05/15/01	NA	NA	NA	< 3	940	NA	NA
	06/21/00	NA	NA	NA	< 3	NA	NA	NA
	01/18/00	NA	NA	NA	< 3	NA	NA	NA
	09/21/99	NA	NA	NA	< 3	NA	NA	NA
	11/21/96	< 50	< 50	< 300	NA	NA	NA	NA
	08/26/96	< 50	< 50	< 300	NA	NA	NA	NA
	04/26/96	< 50	< 50	< 300	NA	NA	NA	NA
	02/05/96	< 50	< 47	< 280	NA	NA	NA	NA
	11/02/95	< 50	< 50	< 1,300	NA	NA	NA	NA
	08/09/95	< 50	< 50	< 1,300	NA	NA	NA	NA
	08/27/92	< 50	70	NA	NA	NA	< 0.1	NA
DEHGW05	09/04/02	NA	NA	NA	< 3	3,580	NA	NA
	06/03/02	NA	NA	NA	< 3	4,770	NA	NA
	03/07/02	NA	NA	NA	< 3	3,170	NA	NA
	11/29/01	NA	NA	NA	< 3	5,970	NA	NA
DUP0906011A	09/06/01	NA	NA	NA	< 3	NA	NA	NA
DEHGW05CL	09/06/01	NA	NA	NA	< 5	NA	NA	NA

**Table 3**  
**Results of TPH, Lead, TDS, OCP, and PCB Analyses**  
**DEH Area**  
Presidio of San Francisco, California

Well Name	Sample Date	TPH as Gasoline (Carbon Range C <sub>7</sub> -C <sub>12</sub> )	TPH as Diesel (Carbon Range C <sub>12</sub> -C <sub>24</sub> )	TPH as Fuel Oil (Carbon Range C <sub>24</sub> -C <sub>36</sub> )	Dissolved Lead	Total Dissolved Solids	Dieldrin	All Other OCPs and PCBs
	Analytical Method <sup>1</sup>	SW8015M	SW8015M	SW8015M	SW6010/ SW6020	E160.1	SW8081A	SW8081A/ SW8082
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(µg/L)	(µg/L)
DEHGW05	05/14/01	NA	NA	NA	< 3	2,770	NA	NA
	06/22/00	NA	NA	NA	< 3	NA	NA	NA
	01/18/00	NA	NA	NA	< 3	NA	NA	NA
	09/07/99	NA	NA	NA	3.3	NA	NA	NA
	06/24/99	NA	NA	NA	< 3	NA	NA	NA
DEHGW06	09/04/02	NA	NA	NA	< 3	7,210	NA	NA
	06/03/02	NA	NA	NA	< 3	10,700	NA	NA
	03/07/02	NA	NA	NA	< 3	4,180	NA	NA
	11/29/01	NA	NA	NA	< 3	6,080	NA	NA
	09/06/01	NA	NA	NA	3.8	NA	NA	NA
	05/14/01	NA	NA	NA	< 3	3,120	NA	NA
	06/22/00	NA	NA	NA	< 3	NA	NA	NA
	01/18/00	NA	NA	NA	3.1	NA	NA	NA
	09/07/99	NA	NA	NA	4	NA	NA	NA
	06/24/99	NA	NA	NA	< 3	NA	NA	NA
DEHGW07	08/30/02	NA	NA	NA	< 3	760	NA	NA
	06/03/02	NA	NA	NA	< 3	700	NA	NA
	03/07/02	NA	NA	NA	< 3	690	NA	NA
	11/30/01	NA	NA	NA	< 3	960	NA	NA
	09/06/01	NA	NA	NA	< 3	NA	NA	NA
	05/14/01	NA	NA	NA	< 3	1,120	NA	NA
	06/21/00	NA	NA	NA	< 3	NA	NA	NA
	01/18/00	NA	NA	NA	< 3	NA	NA	NA
	09/07/99	NA	NA	NA	< 3	NA	NA	NA
	06/24/99	NA	NA	NA	< 3	NA	NA	NA
DEHGW08	06/23/99	NA	NA	NA	< 3	NA	NA	NA
DEHGW09	06/23/99	NA	NA	NA	< 3	NA	NA	NA
DEHGW10	06/23/99	NA	NA	NA	< 3	NA	NA	NA
DEHGW11 DUP0314032A	03/14/03	NA	NA	NA	NA	NA	< 0.1	ND
	03/14/03	NA	NA	NA	NA	NA	< 0.5	ND
	08/30/02	< 50	NA	NA	NA	NA	< 0.094	ND
	06/03/02	< 50	NA	NA	NA	NA	< 0.094	ND

**Table 3**  
**Results of TPH, Lead, TDS, OCP, and PCB Analyses**  
**DEH Area**  
Presidio of San Francisco, California

Well Name	Sample Date	TPH as Gasoline (Carbon Range C <sub>7</sub> -C <sub>12</sub> )	TPH as Diesel (Carbon Range C <sub>12</sub> -C <sub>24</sub> )	TPH as Fuel Oil (Carbon Range C <sub>24</sub> -C <sub>36</sub> )	Dissolved Lead	Total Dissolved Solids	Dieldrin	All Other OCPs and PCBs
	Analytical Method <sup>1</sup>	SW8015M	SW8015M	SW8015M	SW6010/ SW6020	E160.1	SW8081A	SW8081A/ SW8082
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(µg/L)	(µg/L)
DEHGW11	03/07/02	< 50	NA	NA	NA	NA	< 0.095 UJ	ND
	11/30/01	< 50	NA	NA	NA	NA	< 0.48 UJ	ND
	09/05/01	< 50	NA	NA	NA	NA	< 0.097	ND
	05/14/01	< 50	NA	NA	NA	NA	< 0.1 UJ	ND
	06/21/00	< 50	NA	NA	NA	NA	< 0.1	ND
	01/19/00	< 50	NA	NA	NA	NA	< 0.1	ND
	09/08/99	< 50	77	< 300	NA	NA	< 0.1	ND
	06/23/99	NA	NA	NA	< 3	NA	NA	NA
DEHGW12	03/14/03	< 50	NA	NA	NA	NA	NA	NA
	08/30/02	< 50	NA	NA	NA	NA	NA	NA
	06/03/02	< 50	NA	NA	NA	NA	NA	NA
	03/07/02	< 50	NA	NA	NA	NA	NA	NA
	11/30/01	< 50	NA	NA	NA	NA	NA	NA
	09/06/01	< 50	NA	NA	NA	NA	NA	NA
	05/14/01	< 50	NA	NA	NA	NA	NA	NA
	06/24/99	NA	NA	NA	< 3	NA	NA	NA

**Notes**

1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.

µg/L - micrograms per liter

mg/L - milligrams per liter

ND - not detected

NA - not analyzed

TPH - total petroleum hydrocarbons

OCPs - organochlorine pesticides

PCBs - polychlorinated biphenyls

TDS - Total dissolved solids

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

"CL" suffix denotes that a quality control duplicate sample was sent to the control laboratory.

**Table 4**  
**Results of VOC Analyses**  
**DEH Area**  
Presidio of San Francisco, California

Well Name	Sample Date	cis-1,2-DCE	Benzene	Bromo-methane	Carbon Disulfide	Ethyl-benzene	MTBE	Naphthalene	Toluene	Total Xylenes	TCE	All Other VOCs
	Analytical Method <sup>1</sup>	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
<b>Cleanup Levels</b>		--	--	--	--	--	--	--	--	--	<b>6.9</b>	--
DEHGW01	08/30/02	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	ND
	06/03/02	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	ND
	03/07/02	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	ND
	11/30/01	< 0.5	< 0.5	0.6 Jb	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	ND
	09/05/01	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	ND
	05/15/01	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5 UJ	< 0.5 UJ	< 0.5	< 0.5	< 0.5	ND
	06/20/00	< 0.5 (U20)	< 0.5 (U20)	< 0.5	< 5	< 0.5	NA	NA	< 0.5	< 0.5 (U20)	< 0.5 (U20)	ND
	01/19/00	< 0.5	< 0.5	< 0.5	< 5	< 0.5	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/09/99	< 0.5	< 0.5	< 0.5	< 5	< 0.5	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/21/96	< 0.5	< 0.5	< 0.5 U	< 5	< 0.5	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/26/96	NA	< 0.5	< 0.5 U	< 5	< 0.5	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/26/96	NA	< 0.5	< 0.5 U	< 5	< 0.5	NA	NA	< 0.5	< 0.5	< 0.5	ND
	02/05/96	NA	< 0.5	< 0.5 U	< 5	< 0.5	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/02/95	< 0.5	< 0.5	< 0.5 U	< 5	< 0.5	NA	NA	< 0.5	< 0.5	< 0.5	ND
DEHGW03	08/09/95	< 0.5	< 0.5	< 0.5 U	< 5	< 0.5	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/11/95	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.281	NA
	08/27/92	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/04/02	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	ND
	06/03/02	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	ND
	03/07/02	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	ND
	11/29/01	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	ND
DEHGW03	09/06/01	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	ND
	05/15/01	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5 UJ	< 0.5 UJ	< 0.5	< 0.5	< 0.5	ND
	06/21/00	< 0.5	< 0.5	< 0.5	< 5	< 0.5	NA	NA	< 0.5	< 0.5	< 0.5	ND

**Table 4**  
**Results of VOC Analyses**  
**DEH Area**  
Presidio of San Francisco, California

Well Name	Sample Date	cis-1,2-DCE	Benzene	Bromo-methane	Carbon Disulfide	Ethyl-benzene	MTBE	Naphthalene	Toluene	Total Xylenes	TCE	All Other VOCs
	Analytical Method <sup>1</sup>	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
<b>Cleanup Levels</b>		--	--	--	--	--	--	--	--	--	<b>6.9</b>	--
DEHGW03	01/18/00	< 0.5	< 0.5	< 0.5	< 5	< 0.5	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/21/99	< 0.5	< 0.5	< 0.5	< 5	< 0.5	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/21/96	< 0.5	< 0.5	< 0.5 U	< 5	< 0.5	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/26/96	NA	< 0.5	< 0.5 U	< 5	< 0.5	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/26/96	NA	< 0.5	< 0.5 U	< 5	< 0.5	NA	NA	< 0.5	< 0.5	< 0.5	ND
	02/05/96	NA	< 0.5	< 0.5 U	< 5	< 0.5	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/02/95	< 0.5	< 0.5	< 0.5 U	< 5	< 0.5	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/09/95	< 0.5	< 0.5	< 0.5 U	< 5	< 0.5	NA	NA	< 3.8	< 0.5	< 0.5	ND
	01/11/95	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.281	NA
	08/27/92	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DEHGW05	06/24/99	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5	NA
DEHGW06	06/24/99	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5	NA
DEHGW07	06/24/99	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5	NA
DEHGW08	03/11/04	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	0.7	ND
	03/14/03	< 0.5	0.1 J	< 1	< 0.5	0.5	< 0.5	NA	< 0.5	1.3	1.0	ND
	08/29/02	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	1.6	ND
	06/03/02	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	1.1	ND
	03/07/02	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	0.8	ND
	11/30/01	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	1.6	ND
	09/05/01	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	1.0	ND
	05/14/01	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	1.8	ND
	06/20/00	0.19 (J20, J28)	< 0.5 (U20)	< 0.5	< 5	< 0.5	NA	NA	< 0.5	< 0.5 (U20)	1.4 (J20)	ND
	01/18/00	0.63	< 0.5	< 0.5	< 5	< 0.5	NA	NA	< 0.5	< 0.5	3.1	ND
	09/07/99	0.5	< 0.5	< 0.5	< 5	NA	NA	NA	< 0.5	< 0.5	2.6	ND
	06/23/99	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.4	NA

**Table 4**  
**Results of VOC Analyses**  
**DEH Area**  
Presidio of San Francisco, California

Well Name	Sample Date	cis-1,2-DCE	Benzene	Bromo-methane	Carbon Disulfide	Ethyl-benzene	MTBE	Naph-thalene	Toluene	Total Xylenes	TCE	All Other VOCs
	Analytical Method <sup>1</sup>	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
<b>Cleanup Levels</b>		--	--	--	--	--	--	--	--	--	<b>6.9</b>	--
DEHGW09 DUP0311042B DEHGW09CL          DUP0514012A	03/11/04	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	1.9	ND
	03/11/04	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	1.8	ND
	03/11/04	NA	< 0.5	< 0.5	< 5.0 UJ	< 0.5	< 0.5	NA	< 0.5	< 0.5	2.1	ND
	03/14/03	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	NA	< 0.5	0.7	3.6	ND
	08/29/02	0.7	< 0.5	< 1	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	6.2	ND
	06/03/02	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	1.9	ND
	03/07/02	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	1.8	ND
	11/30/01	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	2.1	ND
	09/05/01	< 0.5	< 0.5	< 1	1.8	< 0.5	< 0.5	NA	< 0.5	< 0.5	2.3	ND
	05/14/01	0.5	< 0.5	< 1	< 0.5	< 0.5	0.7	< 0.5 UJ	< 0.5	0.7	3.3	ND
	05/14/01	0.5	0.7	< 1	< 0.5	< 0.5	0.7	< 0.5 UJ	0.7	0.9	3.2	ND
	06/20/00	0.54 (J20)	< 0.5 (U20)	< 0.5	< 5	< 0.5	NA	NA	< 0.5	< 0.5 (U20)	3 (J20)	ND
	01/19/00	0.95	< 0.5	< 0.5	< 5	< 0.5	NA	NA	< 0.5	< 0.5	6.4	ND
	09/08/99	0.59	< 0.5	< 0.5	< 5	< 0.5	NA	NA	< 0.5	< 0.5	4.1	ND
	06/23/99	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.1	NA
DEHGW10          DUP0905011A	03/11/04	< 0.5	0.2 J	< 1	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	1.3	ND
	03/14/03	< 0.5	0.2 J	< 1	< 0.5	0.9	< 0.5	NA	< 0.5	1.6	4.7	ND
	08/30/02	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	3.5	ND
	06/03/02	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	2.1	ND
	03/07/02	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	3.0	ND
	11/30/01	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	3.8	ND
	09/05/01	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	2.8	ND
	09/05/01	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	2.6	ND
	05/14/01	< 0.5	0.6	< 1	< 0.5	< 0.5	< 0.5	0.7	0.7	0.6	2.9	ND
	06/21/00	< 0.5	ND	NA	< 5	NA	NA	NA	< 0.5	< 0.5	2.8	ND
	01/19/00	0.51	ND	NA	< 5	NA	NA	NA	< 0.5	< 0.5	5.8	ND
	09/08/99	0.95	ND	NA	< 5	NA	NA	NA	< 0.5	< 0.5	<b>7.0</b>	ND
	06/23/99	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.0	NA

**Table 4**  
**Results of VOC Analyses**  
**DEH Area**  
Presidio of San Francisco, California

Well Name	Sample Date	cis-1,2-DCE	Benzene	Bromo-methane	Carbon Disulfide	Ethyl-benzene	MTBE	Naphthalene	Toluene	Total Xylenes	TCE	All Other VOCs
	Analytical Method <sup>1</sup>	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
<b>Cleanup Levels</b>		--	--	--	--	--	--	--	--	--	<b>6.9</b>	--
DEHW11 DUP0314032A	03/11/04	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	ND
	03/14/03	< 0.5	0.2 J	< 1	< 0.5	0.8	< 0.5	NA	< 0.5	1.7	< 0.5	ND
	03/14/03	< 0.5	0.2 J	< 1	< 0.5	1.0	< 0.5	NA	< 0.5	1.9	< 0.5	ND
	08/30/02	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	ND
	06/03/02	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	ND
	03/07/02	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	ND
	11/30/01	< 0.5	< 0.5	< 1 U	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	ND
	09/05/01	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	ND
	05/14/01	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	ND
	06/21/00	< 0.5	< 0.5	< 0.5	< 5	< 0.5	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/19/00	< 0.5	< 0.5	< 0.5	< 5	< 0.5	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/08/99	< 0.5	< 0.5	< 0.5	< 5	< 0.5	NA	NA	< 0.5	< 0.5	< 0.5	ND
	06/23/99	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5	NA
DEHW12	01/19/00	< 0.5	< 0.5	< 0.5	< 5	< 5	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/08/99	< 0.5	< 0.5	< 0.5	< 5	< 5	NA	NA	< 0.5	< 0.5	< 0.5	ND
	06/24/99	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5	NA

Notes

1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001.

The analytical methods used during previous quarters are identified in the respective quarterly reports.

µg/L - micrograms per liter

NA - not analyzed

VOC - volatile organic compound

cis-1,2-DCE - cis-1,2 dichloroethene

MTBE - methyl tert-butyl ether

TCE - trichloroethene

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

U20 - Qualified as not detected, due to sample receipt nonconformances; bias cannot be determined.

J20 - Qualified as estimated; due to sample receipt nonconformances; bias cannot be determined.

-- Cleanup Level not established

**Table 5**  
**Groundwater Elevation Summary**  
**DEH Area**  
Presidio of San Francisco, California

Well ID	Date	Tidal Cycle	Average Depth to Water <sup>1</sup> (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
DEHGW01	03/08/04	--	6.43	11.18	4.75	MW
	12/01/03	--	6.30	11.18	4.88	MW
	08/11/03	Low	6.38	11.18	4.80	MW
	06/02/03	Low	6.65	11.18	4.53	MW
	03/10/03	Low	6.68	11.18	4.50	MW
	12/02/02	Low	6.35	11.18	4.83	MW
	08/26/02	Low	6.78	11.18	4.40	MW
	05/28/02	Low	6.73	11.18	4.45	MW
	03/04/02	Low	6.61	11.18	4.57	MW
	11/26/01	Low	6.50	11.18	4.68	MW
	11/26/01	High	6.41	11.18	4.77	MW
	08/27/01	Low	6.81	11.18	4.37	MW
	08/27/01	High	6.82	11.18	4.36	MW
	05/08/01	Low	6.99	11.18	4.19	MW
	05/08/01	High	7.01	11.18	4.17	MW
DEHGW03	03/08/04	--	9.08	12.82	3.74	MW
	12/01/03	--	7.66	12.82	5.16	MW
	08/11/03	Low	9.09	12.82	3.73	MW
	06/02/03	Low	9.22	12.82	3.60	MW
	03/10/03	Low	9.60	12.82	3.22	MW
	12/02/02	Low	9.15	12.82	3.67	MW
	08/26/02	Low	9.35	12.82	3.47	MW
	05/28/02	Low	9.40	12.82	3.42	MW
	03/04/02	Low	9.47	12.82	3.35	MW
	11/26/01	Low	9.35	12.82	3.47	MW
	11/26/01	High	8.02	12.82	4.80	MW
	08/27/01	Low	8.67	12.82	4.15	MW
	08/27/01	High	8.58	12.82	4.24	MW
	05/08/01	Low	9.71	12.82	3.11	MW
	05/08/01	High	8.71	12.82	4.11	MW
DEHGW05	03/08/04	--	6.45	10.36	3.91	MW
	12/01/03	--	5.20	10.36	5.16	MW
	08/11/03	Low	6.61	10.36	3.75	MW
	06/02/03	Low	7.03	10.36	3.33	MW
	03/10/03	Low	6.75	10.36	3.61	MW
	12/02/02	Low	6.15	10.36	4.21	MW
	08/26/02	Low	6.85	10.36	3.51	MW
	05/28/02	Low	6.73	10.36	3.63	MW
	03/04/02	Low	6.80	10.36	3.56	MW
	11/26/01	Low	6.67	10.36	3.69	MW
	11/26/01	High	5.60	10.36	4.76	MW
	08/27/01	Low	6.22	10.36	4.14	MW
	08/27/01	High	6.15	10.36	4.21	MW
	05/08/01	Low	6.93	10.36	3.43	MW
	05/08/01	High	6.32	10.36	4.04	MW
DEHGW06	03/08/04	--	5.72	10.00	4.28	MW
	12/01/03	--	4.74	10.00	5.26	MW
	08/11/03	Low	5.6	10.00	4.40	MW
	06/02/03	Low	5.66	10.00	4.34	MW
	03/10/03	Low	6.04	10.00	3.96	MW
	12/02/02	Low	5.25	10.00	4.75	MW
	08/26/02	Low	6.20	10.00	3.80	MW
	05/28/02	Low	6.04	10.00	3.96	MW



**Table 5**  
**Groundwater Elevation Summary**  
**DEH Area**  
Presidio of San Francisco, California

Well ID	Date	Tidal Cycle	Average Depth to Water <sup>1</sup> (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
DEHGW06	03/04/02	Low	6.08	10.00	3.92	MW
	11/26/01	Low	5.92	10.00	4.08	MW
	11/26/01	High	5.18	10.00	4.82	MW
	08/27/01	Low	5.77	10.00	4.23	MW
	08/27/01	High	5.70	10.00	4.30	MW
	05/08/01	Low	6.08	10.00	3.92	MW
	05/08/01	High	5.90	10.00	4.10	MW
DEHGW07	03/08/04	--	7.74	12.15	4.41	MW
	12/01/03	--	7.06	12.15	5.09	MW
	08/11/03	Low	7.57	12.15	4.58	MW
	06/02/03	Low	7.73	12.15	4.42	MW
	03/10/03	Low	7.98	12.15	4.17	MW
	12/02/02	Low	7.31	12.15	4.84	MW
	08/26/02	Low	8.05	12.15	4.10	MW
	05/28/02	Low	7.91	12.15	4.24	MW
	03/04/02	Low	8.01	12.15	4.14	MW
	11/26/01	Low	7.90	12.15	4.25	MW
	11/26/01	High	7.54	12.15	4.61	MW
	08/27/01	Low	7.88	12.15	4.27	MW
	08/27/01	High	7.87	12.15	4.28	MW
	05/08/01	Low	8.11	12.15	4.04	MW
	05/08/01	High	8.11	12.15	4.04	MW
DEHGW08	03/08/04	--	7.44	11.40	3.96	MW
	12/01/03	--	6.48	11.40	4.92	MW
	08/11/03	Low	7.15	11.40	4.25	MW
	06/02/03	Low	7.42	11.40	3.98	MW
	03/10/03	Low	7.70	11.40	3.70	MW
	12/02/02	Low	7.05	11.40	4.35	MW
	08/26/02	Low	7.64	11.40	3.76	MW
	05/28/02	Low	7.50	11.40	3.90	MW
	03/04/02	Low	7.51	11.40	3.89	MW
	11/26/01	Low	7.38	11.40	4.02	MW
	11/26/01	High	6.88	11.40	4.52	MW
	08/27/01	Low	7.27	11.40	4.13	MW
	08/27/01	High	7.28	11.40	4.12	MW
	05/08/01	Low	7.61	11.40	3.79	MW
	05/08/01	High	7.48	11.40	3.92	MW
DEHGW09	03/08/04	--	5.81	9.91	4.10	MW
	12/01/03	--	6.10	9.91	3.81	MW
	08/11/03	Low	5.41	9.91	4.50	MW
	06/02/03	Low	5.73	9.91	4.18	MW
	03/10/03	Low	5.92	9.91	3.99	MW
	12/02/02	Low	5.32	9.91	4.59	MW
	08/26/02	Low	5.95	9.91	3.96	MW
	05/28/02	Low	5.75	9.91	4.16	MW
	03/04/02	Low	5.75	9.91	4.16	MW
	11/26/01	Low	5.46	9.91	4.45	MW
	11/26/01	High	5.67	9.91	4.24	MW
	08/27/01	Low	5.76	9.91	4.15	MW
	08/27/01	High	5.79	9.91	4.12	MW
	05/08/01	Low	5.93	9.91	3.98	MW
	05/08/01	High	6.00	9.91	3.91	MW

**Table 5**  
**Groundwater Elevation Summary**  
**DEH Area**  
Presidio of San Francisco, California

Well ID	Date	Tidal Cycle	Average Depth to Water <sup>1</sup> (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
DEHGW10	03/08/04	--	6.21	10.31	4.10	MW
	12/01/03	--	5.38	10.31	4.93	MW
	08/11/03	Low	5.83	10.31	4.48	MW
	06/02/03	Low	6.15	10.31	4.16	MW
	03/10/03	Low	6.41	10.31	3.90	MW
	12/02/02	Low	5.72	10.31	4.59	MW
	08/26/02	Low	6.35	10.31	3.96	MW
	05/28/02	Low	6.17	10.31	4.14	MW
	03/04/02	Low	6.20	10.31	4.11	MW
	11/26/01	High	6.10	10.31	4.21	MW
	11/26/01	Low	5.85	10.31	4.46	MW
	08/27/01	Low	6.16	10.31	4.15	MW
	08/27/01	High	6.15	10.31	4.16	MW
DEHGW11	05/08/01	Low	6.30	10.31	4.01	MW
	05/08/01	High	6.42	10.31	3.89	MW
	03/08/04	--	5.92	10.27	4.35	MW
	12/01/03	--	5.41	10.27	4.86	MW
	08/11/03	Low	5.6	10.27	4.67	MW
	06/02/03	Low	5.88	10.27	4.39	MW
	03/10/03	Low	6.12	10.27	4.15	MW
	12/02/02	Low	5.51	10.27	4.76	MW
	08/26/02	Low	6.11	10.27	4.16	MW
	05/28/02	Low	5.97	10.27	4.30	MW
	03/04/02	Low	5.94	10.27	4.33	MW
	11/26/01	Low	5.81	10.27	4.46	MW
	11/26/01	High	5.71	10.27	4.56	MW
DEHGW12	08/27/01	Low	5.91	10.27	4.36	MW
	08/27/01	High	6.04	10.27	4.23	MW
	05/08/01	Low	6.13	10.27	4.14	MW
	05/08/01	High	6.25	10.27	4.02	MW
	03/08/04	--	6.90	11.00	4.10	MW
	12/01/03	--	6.13	11.00	4.87	MW
	08/11/03	Low	6.55	11.00	4.45	MW
	06/02/03	Low	6.63	11.00	4.37	MW
	03/10/03	Low	7.06	11.00	3.94	MW
	12/02/02	Low	6.41	11.00	4.59	MW
	08/26/02	Low	7.04	11.00	3.96	MW
	05/28/02	Low	6.82	11.00	4.18	MW
	03/04/02	Low	6.85	11.00	4.15	MW
	11/26/01	Low	6.75	11.00	4.25	MW
	11/26/01	High	6.50	11.00	4.50	MW
	08/27/01	Low	6.83	11.00	4.17	MW
	08/27/01	High	6.82	11.00	4.18	MW
	05/08/01	Low	6.98	11.00	4.02	MW
	05/08/01	High	7.05	11.00	3.95	MW

Notes

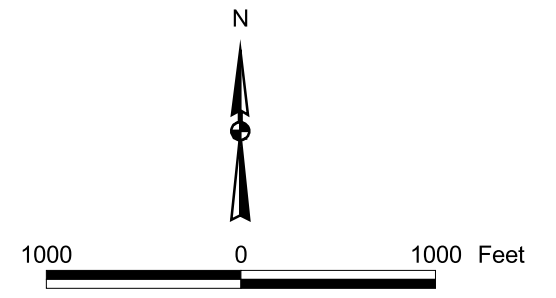
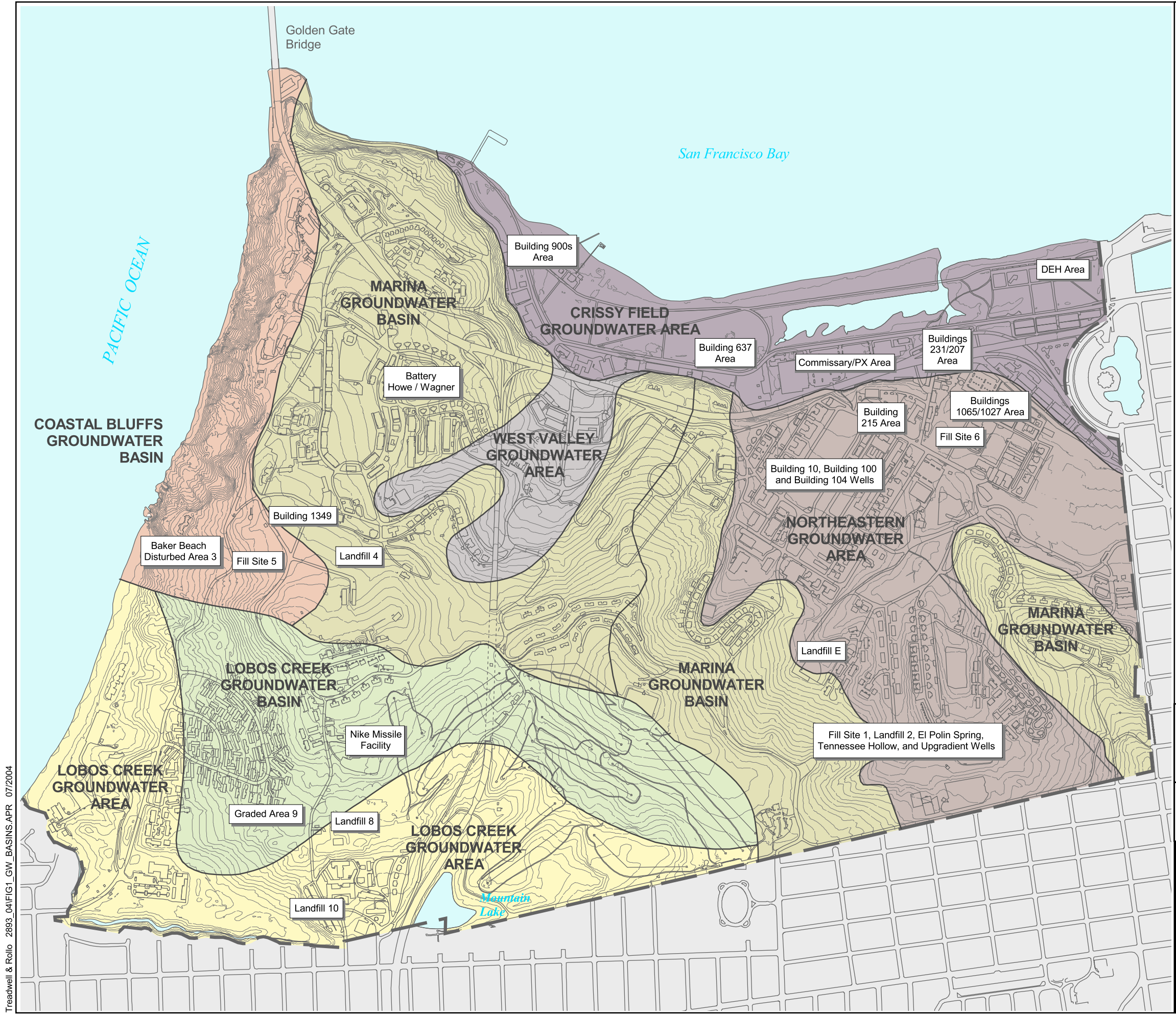
1 - All depth to water measurements are an average of three measurements recorded in the field.

MW- Monitoring Well

feet PLLW - feet above Presidio lower low water vertical datum

-- Groundwater level measurements were not collected on a tidal schedule beginning with Fourth Quarter 2003.

## FIGURES



- LEGEND**
- Presidio Base Map
  - Presidio Boundary
  - Topographic Contours (Contour Interval 10 feet)
- GROUNDWATER BASIN AREAS**
- Coastal Bluffs Groundwater Basin
  - Crissy Field Groundwater Area
  - Lobos Creek Groundwater Area
  - Lobos Creek Groundwater Basin
  - Marina Groundwater Basin
  - Northeastern Groundwater Area
  - West Valley Groundwater Area
- Notes:  
Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet  
Vertical Datum (topography): North American Vertical Datum, NAVD88

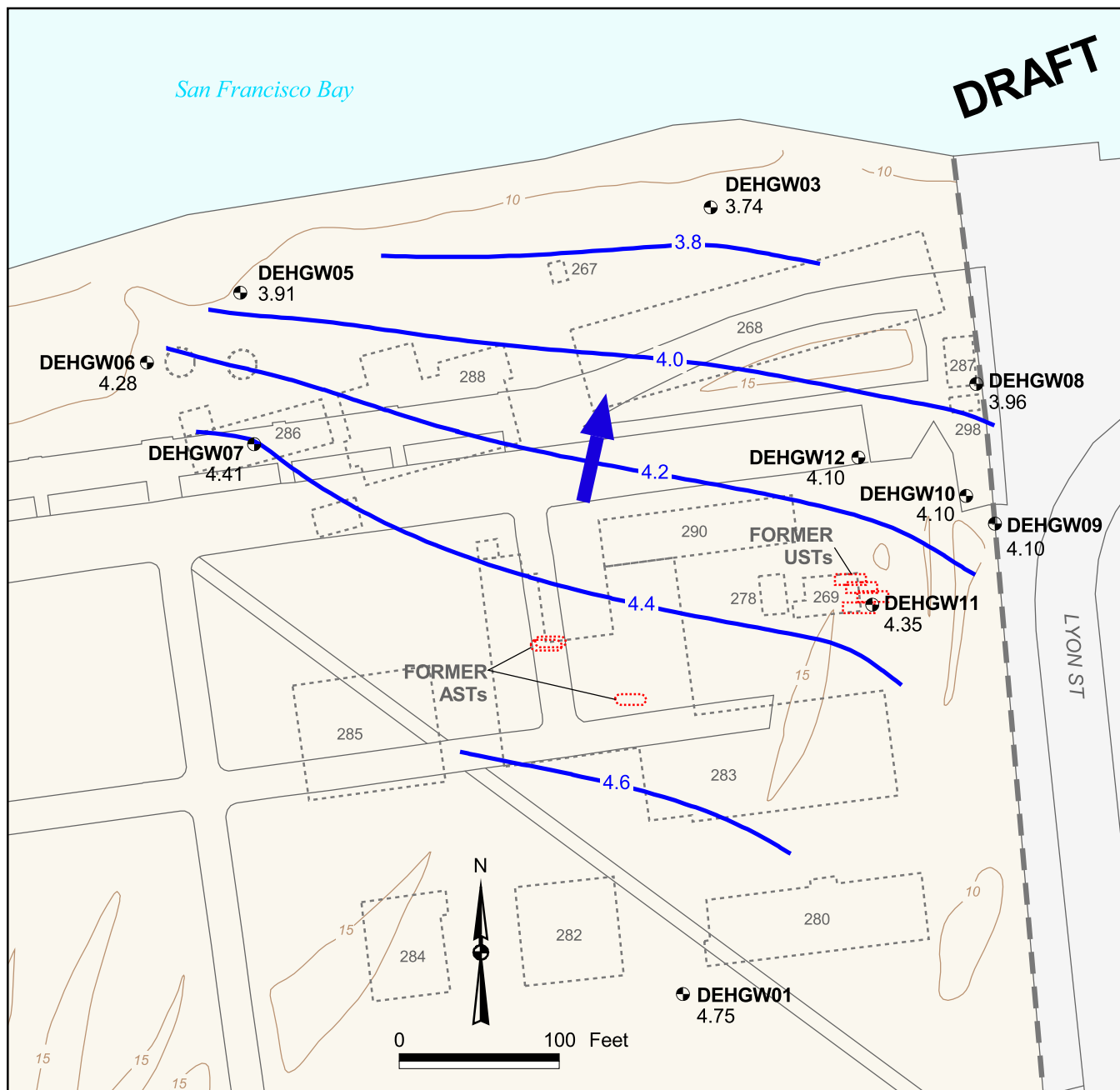
**PRESIDIO SITE MAP  
WITH SAMPLING AREAS AND  
GROUNDWATER BASINS**

**Treadwell&Rollo**











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July 2004  
**FIGURE 1**





## LEGEND

-  **DEHGW01**  
4.75 Groundwater Monitoring Well  
March 2004 Groundwater Elevation
-  Approximate Direction of  
Groundwater Flow
-  Groundwater Contour  
(Contour Interval : 0.2 ft)
-  Presidio Boundary
-  Topographic Contour  
(Contour Interval : 10 ft)

-  282 Approximate location of former site buildings
-  Approximate Location of Former Aboveground Storage Tank (AST)
-  Approximate Location of Former Underground Storage Tank (UST)

## Notes:

Groundwater elevation data collected on 8 March 2004.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet  
Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW)  
(topography) North American Vertical Datum, NAVD88

## DEH AREA SITE PLAN AND 8 MARCH 2004 GROUNDWATER ELEVATION MAP

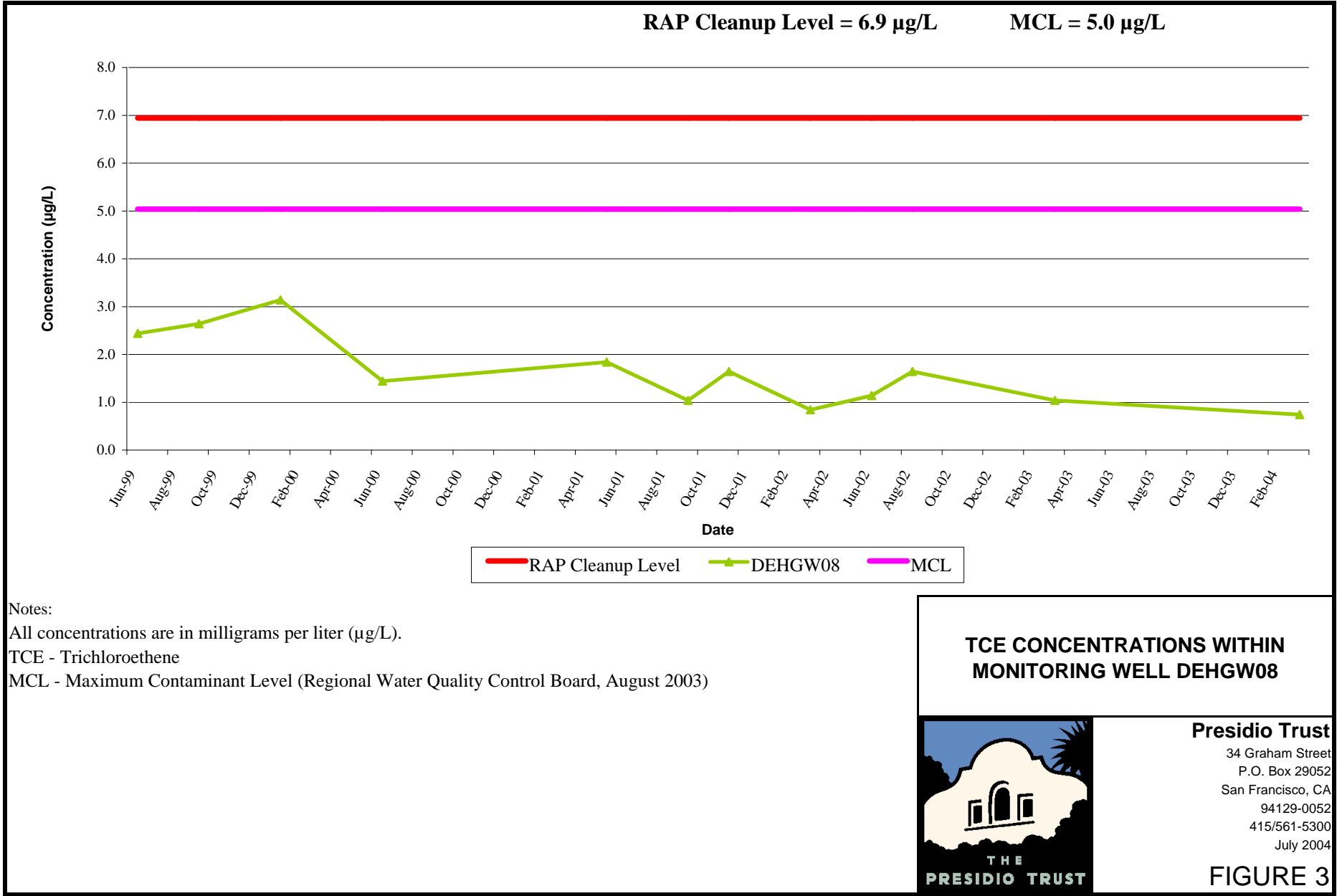
**Treadwell&Rollo**

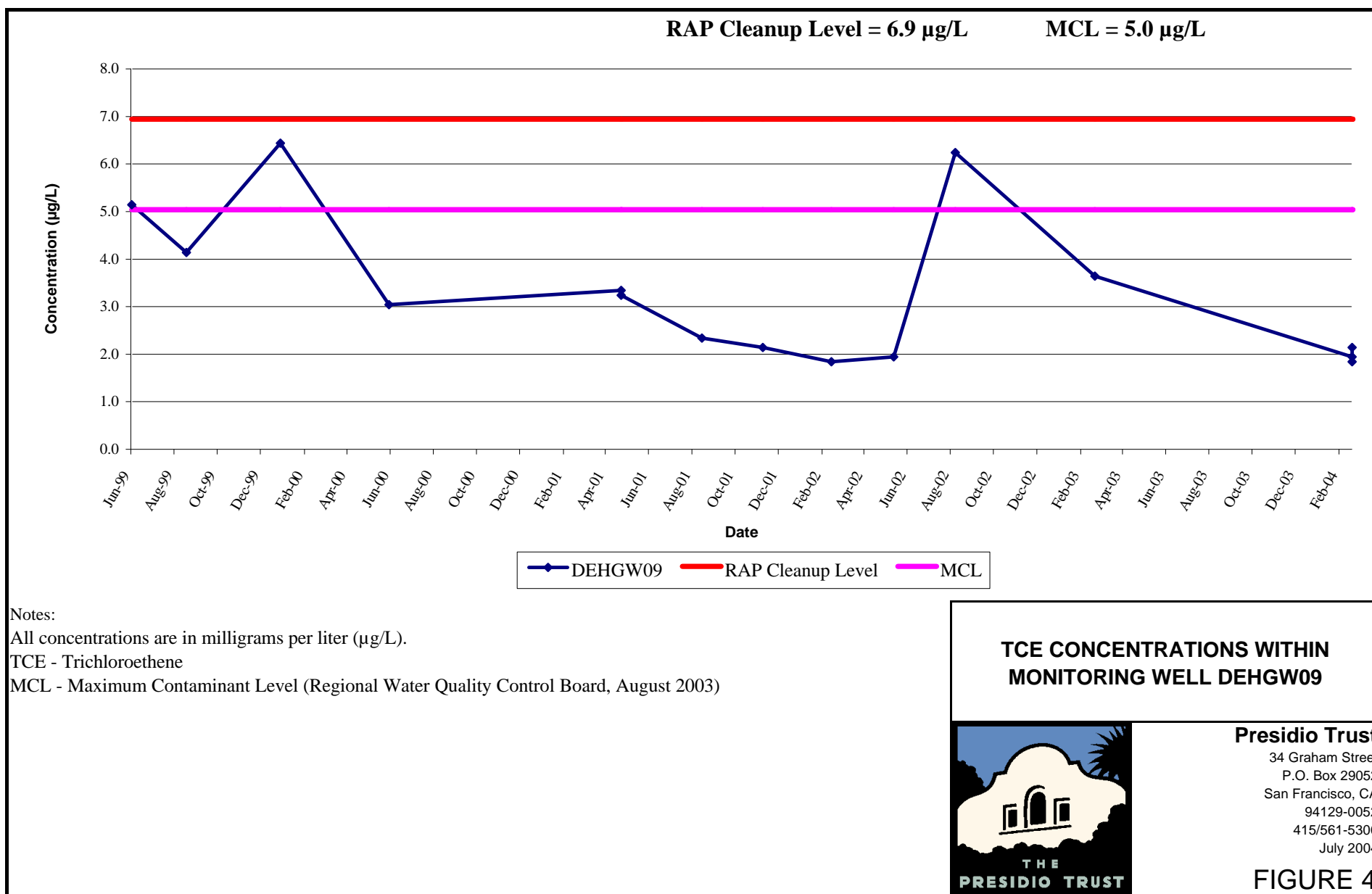


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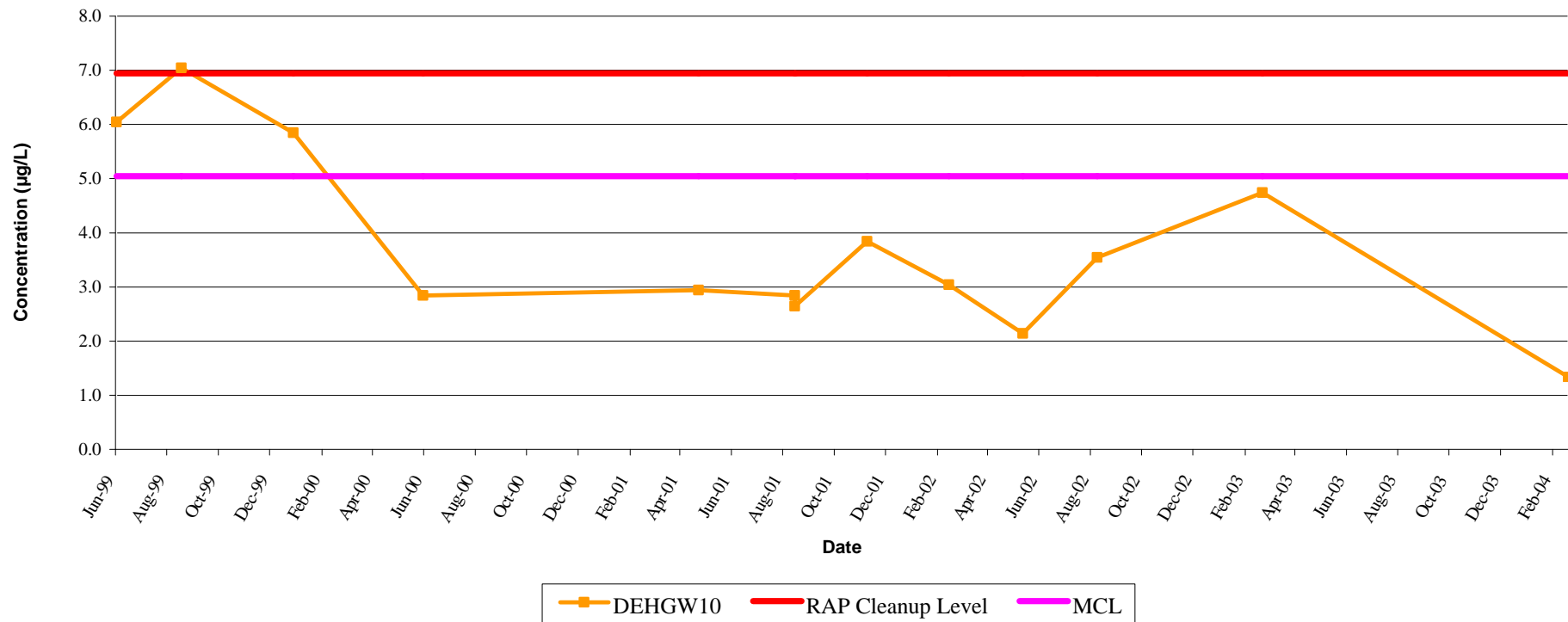
FIGURE 2





RAP Cleanup Level = 6.9 µg/L

MCL = 5.0 µg/L



Notes:

All concentrations are in milligrams per liter (µg/L).

TCE - Trichloroethene

MCL - Maximum Contaminant Level (Regional Water Quality Control Board, August 2003)

**TCE CONCENTRATIONS WITHIN  
MONITORING WELL DEHGW10**



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**FIGURE 5**



**ATTACHMENTS A through D**

Compact Disc